

OCT 20 2004

Atty Dkt A213 1010.1

## IN THE U.S. PATENT AND TRADEMARK OFFICE

Application No.: 10/627,680	Confirmation No. 4613
Application of: G. ATANASOV	Group Art Unit: 2816
Filing Date: July 28, 2003	Examiner: Lepisto, Ryan A.
Title: Optical Monitoring of Thin-Film Deposition	Docket No. A213 1010.1 Customer No. 26158

AMENDMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir or Madam:

In response to the September 23, 2004 office, please enter and consider the following amendment and remarks.

Changes to the claims begin on page 2 of this paper.

Remarks begin on page 9 of this paper.

OCT.20.2004 14:25 7039182265

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OCT 20 2004

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PTO/SB/21 (08-00)

Approved for use through 10/31/02. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Total Number Of Pages In This Submission

16

Application Number

10/627,680

Filing Date

7/28/2003

First Named Inventor

ATANASOV

Group Art Unit

2816

Examiner Name

Lepisto, Ryan A.

Attorney Docket No.

A213 1010.1

**ENCLOSURES (check all that apply)**

- |   |  |   |
|---|--|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form                        | <input type="checkbox"/> Assignment Papers<br>(for an Application)                         | <input type="checkbox"/> After Allowance Communication to Group                               |
| <input type="checkbox"/> Fee Attached   | <input type="checkbox"/> Drawing(s)  | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences           |
| <input checked="" type="checkbox"/> Amendment / Reply                           | <input type="checkbox"/> Licensing-related Papers  | <input type="checkbox"/> Appeal Communication to Group<br>(Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final  | <input type="checkbox"/> Petition  | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declarations                                | <input type="checkbox"/> Petition to Convert to a Provisional Application                  | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request                              | <input type="checkbox"/> Power of Attorney, Revocation<br>Change of Correspondence Address | <input type="checkbox"/> Other Enclosure(s) (please identify below):                          |
| <input type="checkbox"/> Express Abandonment Request                            | <input type="checkbox"/> Terminal Disclaimer   | 1.  |
| <input type="checkbox"/> Information Disclosure Statement                       | <input type="checkbox"/> Request for Refund  |   |
| <input type="checkbox"/> Certified Copy of Priority Document(s)                 | <input type="checkbox"/> CD, Number of CD(s) _____   |   |
| <input type="checkbox"/> Response to Missing Parts/<br>Incomplete Application   | Remarks <input type="checkbox"/>   |   |
| <input type="checkbox"/> Response to Missing Parts<br>under 37 CFR 1.52 or 1.53 |  |   |

**SIGNATURE OF APPLICANT, ATTORNEY OR AGENT**

Firm

Or

Individual Name

Customer No. 26158

Womble Carlyle Sandridge &amp; Rice, LLC

P.O. Box 7037

Atlanta, Georgia 30357-0037

703-394-2216

Signature

Nanda K. Alapati

39,893

Date

October 20, 2004

**CERTIFICATE OF FACSIMILE TRANSMITTAL**

I hereby certify that this correspondence is being sent by facsimile to the United States Patent and Trademark Office, at fax number 703-872-9306 (USPTO Customer Window) on October 20, 2004

  
Nanda K. Alapati

Burden Hours Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

WASHINGTON 113432v2

PAGE 1/16 \* RCVD AT 10/20/2004 2:32:13 PM [Eastern Daylight Time] \* SVR:USPTO-EFAXF-1/3 \* DNIS:8729306 \* CSID:7039182265 \* DURATION (mm-ss):05-00

<b>FEE TRANSMITTAL for FY 2005</b>		<i>Complete If Known</i>																																																																																																																																																																																			
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<input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None <input checked="" type="checkbox"/> Deposit Account Deposit Account Number: <span style="border: 1px solid black; padding: 2px;">09-0528</span> Deposit Account Name: <span style="border: 1px solid black; padding: 2px;">Womble Carlyle Sandridge &amp; Rice</span> The Commissioner is hereby authorized to: (check all that apply) <input checked="" type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments <input type="checkbox"/> Charge any additional fee(s) during the pendency of this application <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		<b>3. 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<b>SUBMITTED BY</b> Name (Print/Type): <span style="border: 1px solid black; padding: 2px;">Nanda K. Alapati</span> Signature: <span style="border: 1px solid black; padding: 2px;"><i>Nanda K. Alapati</i></span>		<i>Complete (if applicable)</i> Registration No. (Attorney/Agent): <span style="border: 1px solid black; padding: 2px;">39,893</span> Telephone: <span style="border: 1px solid black; padding: 2px;">703-394-2216</span> Date: <span style="border: 1px solid black; padding: 2px;">October 20, 2004</span>																																																																																																																																																																																			

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**DUPLICATE COPY FOR  
FEE PROCESSING**

<b>FEE TRANSMITTAL for FY 2005</b>		<i>Complete if Known</i>	
<i>Patent fees are subject to annual revision.</i>		Application Number	10/627,680
		Filing Date	7/28/2003
		First Named Inventor	ATANASOV
		Examiner Name	Lepisto, Ryan A.
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<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		New Attorney Docket No.	A213 1010.1
<b>TOTAL AMOUNT OF PAYMENT</b> (\$) <b>162.00</b>			

  

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)																																																																																																																																																																																		
<input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None <input checked="" type="checkbox"/> Deposit Account <div style="margin-top: 5px;">           Deposit Account Number: <span style="border: 1px solid black; padding: 2px 20px;">09-0628</span>            Deposit Account Name: <span style="border: 1px solid black; padding: 2px 40px;">Womble Carlyle Sandridge &amp; Rice</span> </div> The Commissioner is hereby authorized to: (check all that apply) <input checked="" type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments <input type="checkbox"/> Charge any additional fee(s) during the pendency of this application <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	<b>3. ADDITIONAL FEES</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>1805</td><td>1,840*</td><td>1805</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>1281</td><td>110</td><td>2281</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>1252</td><td>430</td><td>2252</td><td>215</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>1253</td><td>980</td><td>2253</td><td>490</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>1264</td><td>1,630</td><td>2264</td><td>765</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>1265</td><td>2080</td><td>2265</td><td>1040</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>1401</td><td>340</td><td>2401</td><td>170</td><td>Notice of Appeal</td><td></td></tr> <tr><td>1402</td><td>340</td><td>2402</td><td>170</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>1403</td><td>300</td><td>2403</td><td>150</td><td>Request for oral hearing</td><td></td></tr> <tr><td>1451</td><td>1,510</td><td>1451</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - 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late filing fee or oath		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet		1053	130	1053	130	Non-English specification		1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		1281	110	2281	55	Extension for reply within first month		1252	430	2252	215	Extension for reply within second month		1253	980	2253	490	Extension for reply within third month		1264	1,630	2264	765	Extension for reply within fourth month		1265	2080	2265	1040	Extension for reply within fifth month		1401	340	2401	170	Notice of Appeal		1402	340	2402	170	Filing a brief in support of an appeal		1403	300	2403	150	Request for oral hearing		1451	1,510	1451	1,510	Petition to institute a public use proceeding		1452	110	2452	55	Petition to revive - unavoidable		1453	1,370	2453	685	Petition to revive - unintentional		1501	1,370	2501	685	Utility issue fee (or release)		1502	400	2802	245	Design issue fee		1503	600	2803	330	Plant issue fee		1460	130	1460	130	Petitions to the Commissioner		1807	50	1807	50	Processing fee under 37 CFR 1.17(a)		1808	180	1808	180	Submission of Information Disclosure Stmt		8021	40	8021	40	Recording each patent assignment per property times number of properties		1809	790	2809	395	Filing a submission after final rejection (37 CFR 1.129(a))		1810	790	2810	395	For each additional invention to be examined (37CFR 1.129(b))		1801	790	2801	395	Request for Continued Examination (RCE)		1802	900	1802	900	Request for expedited examination of a dozen application	
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<b>2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>Total Claims</td> <td style="border: 1px solid black; text-align: center;">62</td> <td>-44 ** =</td> <td style="border: 1px solid black; text-align: center;">18</td> <td>x</td> <td style="border: 1px solid black; text-align: center;">9</td> <td>=</td> <td style="border: 1px solid black; text-align: center;">162.00</td> </tr> <tr> <td>Independent Claims</td> <td style="border: 1px solid black; text-align: center;">4</td> <td>-5 ** =</td> <td style="border: 1px solid black; text-align: center;">0</td> <td>x</td> <td style="border: 1px solid black; text-align: center;"></td> <td>=</td> <td style="border: 1px solid black; text-align: center;">0</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td style="border: 1px solid black; text-align: center;"></td> <td>x</td> <td style="border: 1px solid black; text-align: center;"></td> <td>=</td> <td style="border: 1px solid black; text-align: center;"></td> </tr> </table> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1202</td><td>18</td><td>2202</td><td>9</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>1201</td><td>88</td><td>2201</td><td>44</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>1203</td><td>300</td><td>2203</td><td>150</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>1204</td><td>88</td><td>2204</td><td>44</td><td>** Reissue independent claims over original patent</td><td></td></tr> <tr><td>1205</td><td>18</td><td>2205</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> </tbody> </table> <b>SUBTOTAL (2)</b> (\$) <b>162.00</b> ** or number previously paid, if greater. For Reissues, see above		Total Claims	62	-44 ** =	18	x	9	=	162.00	Independent Claims	4	-5 ** =	0	x		=	0	Multiple Dependent				x		=		Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1202	18	2202	9	Claims in excess of 20		1201	88	2201	44	Independent claims in excess of 3		1203	300	2203	150	Multiple dependent claim, if not paid		1204	88	2204	44	** Reissue independent claims over original patent		1205	18	2205	9	** Reissue claims in excess of 20 and over original patent																																																																																																																			
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SUBMITTED BY		<i>Complete if applicable</i>	
Name (Print/Type)	Nanda K. Alapati	Registration No. (Attorney/Agent)	39,893
Signature		Telephone	703-394-2216
		Date	October 20, 2004

WASHINGTON 127666V1